PERMIT APPLICATION
CATHODIC PROTECTION WELLS/ SHALLOW ANODES

OFFICE USE ONLY
LMON PERMIT #: _____
SITE PERMIT #: _____
DATE RECEIVED: _____
FEE PAID: _____

A. RESPONSIBLE PARTY* _____ Phone _____
Mailing Address _____ City _____ State _____ Zip _____
Contact Person _____ Phone _____ Ext. _____ E-mail _____
(*The person, persons, or company responsible for the construction, maintenance, and destruction of the proposed borings and/or wells.)

B. CONSULTANT/CONTRACTOR _____ **LIC. #** _____
Mailing Address _____ City _____ State _____ Zip _____
Contact Person _____ Phone _____ Ext. _____ E-mail _____

C. DRILLING COMPANY _____ C57# _____ Phone _____
Mailing Address _____ City _____ State _____ Zip _____
Contact Person _____ Phone _____ Ext. _____ E-mail _____

D. SITE INFORMATION

1. ASSESSOR'S PARCEL NUMBER _____
Site Name _____
Site Address _____ City _____ Zip _____

PROPERTY OWNER _____ Phone _____
Mailing Address _____ City _____ State _____ Zip _____

2. ASSESSOR'S PARCEL NUMBER _____
Site Name _____
Site Address _____ City _____ Zip _____

PROPERTY OWNER _____ Phone _____
Mailing Address _____ City _____ State _____ Zip _____

E. CONSTRUCTION INFORMATION

TYPE AND NUMBER OF CATHODIC PROTECTION WELLS TO BE CONSTRUCTED

# of beds
☐ Deep Well Ground Bed (>50') ___
☐ Shallow Anode (>20'/<50') ___
☐ Other _____

NUMBER OF CATHODIC PROTECTION WELLS TO BE DESTROYED #_____

MATERIALS TO BE USED

CASING
Type _____
Gauge _____
Diameter _____

SEAL
☐ Neat Cement
☐ Cement & Bentonite
☐ Sand-Cement
☐ Bentonite
☐ Other – specify

Borehole diameter _____

Drilling Method
☐ Auger ☐ Air Rotor
☐ Mud Rotary
☐ Percussion ☐ Other

PROPOSED CONSTRUCTION
Estimated groundwater depth _____ft.
Proposed depth of well _____ft.
CONCRETE SURFACE SEAL ____ to ___
ANNULAR SEAL _____ to _____
NONCONDUCTIVE PACK _____ to _____
CONDUCTIVE FILL _____ to _____
TYPE OF ANODE(S) _____
_____
Attach a CPW construction diagram
PROPOSED DRILLING DATE_____

F. FEES: Effective 07/01/07 – 06/30/08

ACTIVITY	FEE	AMOUNT
Construction or Destruction of **first** Cathodic Protection Well or Shallow Anode	$186.00 for first well activity	__1__ x $186.00 $_____
Construction of Each Additional Well or Shallow Anode	$160.00 for each additional well	_____ x $160.00 $ _____
Destruction of each Additional Well or Shallow Anode	$120.00	_____ x $120.00 $ _____
	TOTAL COST OF PERMIT	$ _____

G. SUPPLEMENTAL INFORMATION

1. Proposed life expectancy of well _____.
2. Purpose of well _____
   _____.
3. Indicate any known past, current, or proposed storage or handling of hazardous substance on site (please explain) _____
   _____.
4. For destruction; provide a description of method and attach a cross-section of the CPW (well construction diagram). Attach separate sheet of paper) _____
   _____
   _____.
5. What procedure will be used to prevent the Cathodic Protection Well (CPW) from providing an avenue to contamination during construction (if applicable)? _____
   _____.
6. Are you proposing a variation from the methods and/or procedures presented in the State and County of San Diego requirements for the construction of CPWs? If yes, specify these variations _____
   _____.
7. Are the proposed cathodic protection wells (CPWs) located within 100 feet of known or potential sources of pollution or contamination? _____
8. Are the CPWs located in an area(s) prone to flooding? _____
9. Does the ground surface surrounding a CPW slope away from the well? _____
10. Are the CPWs proposed to be located less than 10 feet from any buildings or proposed buildings? _____
11. How is the annular seal going to be placed? _____
    (Note: The annular space must be effectively sealed to prevent it from being a preferential pathway.)
12. The conductive backfill, nonconductive backfill, and annular seal must not be subject to decomposition or consolidation after placement, and must be free of pollutants and contaminants. Provide a list of the materials to be used. Annular Seal, Nonconductive Backfill, Conductive Backfill _____
    _____
13. Is it anticipated that poor quality groundwater zones will be encountered? _____
14. What methods are you going to be using to identify poor quality water zones in the field? _____
15. When poor quality water zones are identified, proper seals must be placed to prevent cross-contamination between zones. At a minimum, the seal must extend through the poor quality stratum at least 10 feet into the confining layer. Explain how you propose to seal off poor water quality zones. _____
    _____
16. A minimum of 2 inches of sealing material must be maintained between all casings and the borehole wall within the interval to be sealed? Are you proposing a modification to this Standard? _____
17. Are you proposing a variance to the surface completion standards? The surface completion standards are found at CA Well Standards Bulletin 74-90, pgs 57-74. _____
18. Does the sealing material surround the vault from the top of the annular seal to the ground surface? _____
19. Are you proposing a variance to the placement of seals as outlined in Section 9 or the Bulletin 74-90 Cathodic Protection Wells? If yes, explain:_____

20. Are you proposing a variance to the casing materials as outlined in Section 12 of the Bulletin 74-90 Cathodic Protection Wells? If yes, explain:_____

21. Does the proposed surface construction have:

- Positive surface drainage away from the security structure to avoid surface ponding on or around the well? Provide details on the surface completion if it is to be different from that presented in the SAM Manual, Appendix B, Section IV, B, r. or Appendix B, Section IV, B, s? _____
- A locking cover?_____
- A casing watertight cap, "U" bend or equivalent device to prevent the entry of water? _____
- A casing that terminates above ground surface and known levels of flooding? _____
- A concrete base or pad that is at least 4" thick and slopes to drain away and is in contact with the annular seal? _____

NOTE:

1. The surface completion well cover or vault must be labeled "Cathodic Protection Well."
2. Any tubular materials, such as a vent pipe or anode access tubing passing through the interval to be sealed must meet the requirements for casing materials of Section 12 of Bulletin 74-90.
3. The casing of the CPW shall at least have a 2-inch internal diameter to facilitate eventual well destruction.

H. APPLICATION SUBMITTAL, PLAN APPROVAL, PERMIT ISSUANCE, AND REQUIRED INSPECTIONS

Submit one (1) original and two (2) copies of this application package, including a proposed well diagram and the required fee, to the Monitoring Well Permit Desk with the Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), 1255 Imperial Avenue, San Diego, CA 92101; or mail to P. O. Box 129261, San Diego, CA 92112-9261. **Checks should be made payable to the County of San Diego.**

A permit will be issued by the Monitoring Well Program (MWP) upon review and approval of the application and plans. The required fees must be submitted with the application package. Information in addition to that presented in the application package may be needed in order to obtain final approval**. No work is to begin on the proposed project until a permit has been issued.**

Once the permit has been issued, it is the responsibility of the permittee to notify the Monitoring Well Desk at (619) 338-2339 at least two (2) working days in advance of any drilling activity.

MULTIPLE ASSESSORS PARCELS (APN#) MAY BE INCLUDED ON ONE APPLICATION IF THE PARCELS ARE ADJACENT OR CONTIGUOUS.

- The well driller must have an active C-57 License and current $7,500 bond with the County of San Diego.
- Provide a signed copy of the Property Owner Responsibility Acknowledgement form for each property (APN#) listed in Section "D".
- Provide a copy of the application for an encroachment/excavation permit and/or traffic control permit for work to be done in street or public right of way.

Additional Information (such as SAM Manual, Property Owner Responsibility Acknowledgement form, or other applications and forms) may be found at the MWP web site at www.sdcounty.ca.gov/deh/lwq/sam/monitoring_well.html

I agree to comply with the requirements, ordinances and laws of the County of San Diego and the State of California, pertaining to CPW or Anode construction and destruction. I certify the design of the well is in accordance with the CA Well Standards and DEH SAM requirements. Within 60 days of completion, I will furnish the monitoring well permit desk with a complete and accurate well log, as-built diagram, and well location site map (to scale).

_____ _____

DRILLER'S SIGNATURE DATE